



PROGRAM : B TECH - MINING ENGINEERING

SUBJECT : MINING LEGISLATION

CODE: MLG42-1

DATE : FINAL EXAMINATION
31 MAY 2014

DURATION : (SESSION 1) 08:30 - 11:30

TOTAL MARKS : 100

EXAMINER : MR N NDIWENI

MODERATOR : MR K HEWITSON 5091

NUMBER OF PAGES : 4 PAGES (incl. cover page)

INSTRUCTIONS :

1. ANSWER ALL QUESTIONS
2. THIS IS AN OPEN BOOK EXAMINATION. (ONLY A TAG INDEXING SYSTEM IS ALLOWED ON THE MHSAct WITH REGULATIONS, NO OTHER NOTES ALLOWED).
3. THE USE OF COMPUTERS, LAPTOPS, PALMTOPS, CALCULATORS & RELATED ITEMS IS PROHIBITED.
4. ALL QUESTIONS SHOULD HAVE REFERENCES & KEY WORDS ,UNLESS STATED OTHERWISE
5. AN ANSWER TO A QUESTION WHEN STARTED SHOULD BE COMPLETED BEFORE ANOTHER ANSWER FOR THE FOLLOWING QUESTION BEGINS

QUESTION 1

Last month the following article appeared in one of the newspapers:-

The minister of minerals and resources, said she is concerned at the gaps in the safety standards in the mining industry.

A mine safety audit report detailing the high number of injuries and fatalities in South Africa's mines each year has been released by the department. It shows that in the past three years, unsafe working conditions have led to the death of 200 mine workers annually, in addition to the almost 5 000 people who are injured.

Many of these injuries are so severe that limbs need to be amputated which leads to a significant reduction in standards of living and ability to earn an income.

"If one looks at the statistics, they do not paint a particularly rosy picture of the state of affairs in this important sector of our economy," said the minister, reacting to the report, which was released by the department at the request of the Presidency in Pretoria on Monday.

Discuss your thoughts on this newspaper article in order to improve the accident statistics, in line with the current legislation. [7]

QUESTION 2

2.1 What are the duties of a mine manager as far as the election of health & safety representatives is concerned. (6)

2.2 In the use of explosives in blasting, a competent person can be assisted by another competent person, what is this other competent person who assists the competent person allowed to do. (5)
[11]

QUESTION 3

Accidents associated with shafts and winders can result into major risk if they ever occur. Outline any ten relevant sections or regulations of the Act which an employer who has shaft(s), winder(s) and single drum winch(es) on their mine, must comply with. [10]

QUESTION 4

4.1 Silicosis, noise, fog, transport and machinery can sometimes affect occupational health; support this statement by quoting the appropriate legislation of the Act. (15)

4.2 If underground mine machinery has been identified as a major contributor towards an increase in noise induced hearing loss (NIHL) occurrences at your mine, what strategy will you implement to deal with the problem and how will you ensure that it is effective. (4)
[19]

QUESTION 5

5.1 State the duties of every employer with regard to maintaining a healthy and safe environment. (9)

5.2 Under what circumstances must the Chief Inspector of Mines review a code of practice of a mine? (2)
[11]

QUESTION 6

State the functions of every employer with regard to the adequate supply of health and safety equipment as well as personal protective equipment. [6]

QUESTION 7

7.1 Over and above the detail that must be shown on all prescribed mine plans, what further information is required to be shown on the mine ventilation and rescue plan? (12)

7.2 What are the requirements of the Regulations with regard to the updating of plans before a mine is abandoned, closed or rendered inaccessible? (9)
[21]

QUESTION 8

8.1 State the detail that must be shown in the report prepared by the employer after the completion of an investigation into every accident that must be reported in terms of the Act as well as every serious illness and health threatening occurrence. (4)

8.2 To whom must a copy of the above report be delivered. (2)
[6]

QUESTION 9 (Reference is not required in this question)

Explain the following as they relate to the Mining Charter:-

9.1 Ensure that multinational suppliers of capital goods annually contribute a minimum of 0.5% of annual income generated from local mining companies towards socio-economic development of local communities into a social development fund from 2010 (2)

9.2 Mining companies may offset the value of the level of beneficiation achieved by the company against a portion of its HDSA ownership requirements not exceeding 11% (2)
[4]

QUESTION 10 (Reference is not required in this question)

Discuss Social Labour Plan as it comprises of:

10.1 Human Resource Development Programme

10.2 Local Economic Development Programme

10.3 Management of Downscaling & Retrenchment

10.4 Financial Provision

[5]

TOTAL=100
